

SEQUENCE LISTING

<110> Hariharan, Kandasamy
 Daniels, Mark
 McLachlan, Karen

<120> GENES OVEREXPRESSED BY OVARIAN CANCER AND THEIR USE IN DEVELOPING
 NOVEL THERAPEUTICS

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<150> PCT/US03/18253
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cttgtggatg ggtattctcc caacagaaat gagcccttaa ctgggaattc tgaccttccc 3300
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cagtgccag gctactacca gtcacaccta gacctggagg atctgcaatg actggaactt 3480
gccggtgcct ggggtgcctt tccccagcc agggtcctaaa gaagcttggc tggggcagaa 3540
ataaaccata ttggtcg 3557

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<210> 12
<211> 516
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (434)..(434)
<223> n is a, c, g, or t

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<400> 12
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caggatctcc tatggagtgt gtaggtgtcc acgagtgtac cgggtgtgcgg gcctcctggg 180
ctgcaggcac tcaggcatgg tggcagcatt gagggaaaga cagggtgttg ggagcgggg 240
ccccacctgc ccaggctcag gagtcacagg ggtctgcaca gtcctttctg ctgtggaaca 300
cgtgatagat gctggtcggg gggaacatag caacagcgcc gagcagagag cccacctgga 360
tggccacgcc ggctgccagc aatgccggcc ggccccgcc atgcagcagg gagctggctg 420
ccaccttcac gtangagaac acgccaagac acagcaccca cgacagcacc tgaggggggac 480
acagcaccag ctgagcgtga gatgtgcctg ctccag 516

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<210> 13
<211> 420
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

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<400> 13
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acagcccca ctggctcctg gctccaagcc tgctccttgc ccttgcccac cctggaaagc 120

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caggatctcc	tatggagtgt	gtaggtgtcc	acgagtgtac	cggtgtgcgg	gcctcctggg	180
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ccccacctgc	ccaggctcag	gagtcacagg	ggtctgcaca	gtcctttctg	ctgtggaaca	300
cgtgatagat	gctggtcggg	gggaacatag	caacagcgcc	gagcagagag	cccacctgga	360
tggccacgcc	ggctgccagc	aatgccggcc	ggcccccgcc	atgcagcagg	gagctggctg	420

<210> 14
 <211> 1853
 <212> DNA
 <213> Homo sapiens

<400> 14	
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ggcgggaagc	cggcactgga
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gcgggagcgc	actgggcgcg
ggaccgggag	gcgcagggac
cggacggctc	ccgagtcgcc
120	
cacctgacgc	tagaagaagt
cttcacttcc	caggagagcc
aaagcgtgtc	tggccctagg
180	
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acctttgccc	tgacctgga
gggcccagcc	ttgggctgaa
240	
tggcagcacc	cacgcccgcc
cgtccgggtgc	tgaccacact
gctggtggt	ctcttcggca
300	
tgggctcctg	ggctgcggtc
aatgggatct	gggtggagct
acctgtggtg	gtcaaagagc
360	
ttccagaggg	ttggagcctc
ccctcttacg	tctctgtgct
tgtggctctg	gggaacctgg
420	
gtctgtggt	ggtgaccctc
tggaggaggc	tggccccagg
aaaggacgag	caggccccca
480	
tccgggtggt	gcaggtgctg
ggcatggtgg	gcacagccct
gctggcctct	ctgtggcacc
540	
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cagttgcatt	ctgtggcctt
cttagcactg	gcctttgtgc
600	
tggcactggc	atgctgtgcc
tcgaatgtca	ctttcctgcc
cttcttgagc	cacctgccac
660	
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ttcctgggtc	aaggcctgag
tgccctgctg	ccctgcgtgc
720	
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ggccgcctcg	agtgcccgcc
agccccatc	aacggcaccc
780	
ctggcccccc	gctcgacttc
cttgagcgtt	ttcccgccag
caccttcttc	tgggcactga
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gctgctgcct	tccagggtct
tctgctgctg	ttgccgccac
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caccatctgt	accacagggg
gagttaggat	caggcctcca
ggtgggagcc	ccaggagcag
960	
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tcaccactgc	aagagccacc
aagccaggca	gcaggcacca
1020	
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gcctatcagc	ttctatcagc
ccgcagtgcc	tgccctgctgg
1080	
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gcgctgacca	atggcgtgct
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ctggcctacc	acctggctgt
ggtgctgggc	agtgctgcca
1200	
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gccatgggtg	tgctgtgcag
gtccttgga	gggctgggcg
1260	
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ttctgtgggg	gctacctgat
ggcgctggca	gtcctgagcc
1320	

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cctgcccgcc cctggtgggc acctcggcgg ggggtggcct cgtggtgctg tcgtgggtgc 1380
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<210> 15
<211> 490
<212> DNA
<213> Homo sapiens

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<400> 15
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ggcggatggg gggcagcggg gggcaccggg gcagggcgcg ctgacctgtc ctggggcccg 180
ggttgggggc agaaatgagc ctgcccacgc tgtcccgcga cggcagggcg cacgcctcct 240
cgacacagcc gccatggcag gccttcgggc tccgtctccg ggacaggcgg tgcagggcaa 300
attggtatgc agcgtccgcc ccgtggggcc gggagagcct gcccgcaggg gaccagagcc 360
caaggacggg ctcaacactc agtcaagggt ggggtgacga cggccagaca acaggggagg 420
gaggagggac aaggggggtcc ccacttccag ggacgcacaa tagcagagcc acttacacgc 480
tggggagggg 490

```

```

<210> 16
<211> 474
<212> DNA
<213> Homo sapiens

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<400> 16
acttggcatg cagtaagcgc tcaataatag cttttattat catgttcggc tcagaggcag 60
ggaggagtgg aacggcatgg gagggctgcg ggaggcacgg caggggggtc aggggcaagt 120
ggcaggaggg cggatggggg gcagcgggtg gcaccggggc agggcgcgct gacctgtcct 180
ggggcccggg ttgggggcag aaatgagcct gccacgctg tcccgccacg gcaggcgcca 240
cgcctcctcg acacagccgc catggcaggg cttcgggctc cgtctccggg acaggcgggt 300
cagggcaa at tggtatgcag cgtccgcccc gtgggcccgg gagagcctgc cccgcaggga 360

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ccagagccca aggacgggct caacactcag tcaaggtggg gttgacgacg gccagacaac 420
 aggggagggga ggagggacaa ggggggtcccc acttttcaggg acgcacaata gcag 474

<210> 17
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (444)..(444)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (447)..(447)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (499)..(499)
 <223> n is a, c, g, or t

<400> 17
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 cagccagtcc acatcctctc cggaggggact gcagcaagga tcgttaagtc tgtccaccgg 180
 gatgggggaa gaccagggcc ggagcagatt ggccatcctt cagaagatcg acttccgcta 240
 ttggggagag tctgaggagt ccgttctccc acggggcctc gtcactcttt gcgaagggcg 300
 cctggcaggt caaatgacct ccatttccac ctgcgcttcc accttcttct tttgcttctc 360
 catcactgcc tccagctctg acactttctc tttgtcctcc agcagcgagc gctgcacggt 420
 gacctggctg tacacacgtg cccnctnctc ggggctcacc gcccgagct tctccctctg 480
 cagcgagaaa agctgcgcnc cggtcagcac acccagcgcg tccacgggcc cggagctaaa 540
 gcccttggcc tgcag 555

<210> 18
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 18
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 ccctccccac tcccagccag tccagatcct ctccggaggg actgcagcaa ggatcgtaa 180

gtctgtccac	cgggatgggg	gaagaccagg	gccggagcag	attggccatc	cttcagaaga	240
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tttgcaagg	gcgcctggca	ggtcaaata	cctccatttc	cacctcgct	tccaccttct	360
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<210> 19

<211> 1829

<212> DNA

<213> Homo sapiens

<400> 19

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cgtccccatc	gccgcgccc	tctgctcccc	tcagagggt	tgctgacgt	gcgggccaag	180
ccgcctcgg	aggccgagta	caccgacgtg	ctgcagaaga	tcaagtacgc	cttcagcctg	240
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ttcgggcctc	tgcatgat	tgtgaacacg	tcgggggggc	cggagtctgc	gagcagtgtg	360
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aaagcgctag cagacccccg agaggggtgca atggagccct gagcattgta atatgcggcc 1800
cagcctataa acagcctccg tgcttagca 1829

```

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<210> 20
<211> 584
<212> DNA
<213> Homo sapiens

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<400> 20
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gaagcagacc tcattctatt catgatgtca gctgagattt tcccacagag tactgtaact 180
tttctttcta tatactcata tgttttaagg aaaaagaaat gacagttgat tgactggat 240
atacatatat ttatatatat atatttttac aacggatcct ttggatctga acatacaaat 300
aaatacaaaa acaacgaaga ttgcacttta ctgtagaaac ggcacggat tccagtatac 360
ccatttatct tgacgtgctc tgccatgaaa gcttatcact aaggcatttt tcatctgtgg 420
gatttcccta attactgttt tgaatgacac atttggtgaa ggattcaaca ccatctctgg 480
atgggttaaaa tatatttttag gcttttatct actcctaaag ttgttggtca agctctggag 540
ggcttgaaaa tcgaatgtgc attcctgtca gttttgtcct ttg 584

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<210> 21
<211> 328
<212> DNA
<213> Homo sapiens

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<400> 21
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cttatgtctc tctgaaatac agaaagcttt acttataatt ctcataaatg cttttatctt 180
ggtgagaaat aaaaaataaa atgcagaaca agtctaagga aagcaaagggt tcttgtaaca 240
attgtgactt ttggaagaaa cagtgcagct tgacaacaaa aggttctgaa gcagacctca 300
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<210> 22
 <211> 628
 <212> PRT
 <213> Homo sapiens

<400> 22

Met Ser Arg Ser Gly Asp Arg Thr Ser Thr Phe Asp Pro Ser His Ser
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Asp Asn Leu Leu His Gly Leu Asn Leu Leu Trp Arg Lys Gln Leu Phe
 20 25 30

Cys Asp Val Thr Leu Thr Ala Gln Gly Gln Gln Phe His Cys His Lys
 35 40 45

Ala Val Leu Ala Ser Cys Ser Gln Tyr Phe Arg Ser Leu Phe Ser Ser
 50 55 60

His Pro Pro Leu Gly Gly Gly Val Gly Gly Gln Asp Gly Leu Gly Ala
 65 70 75 80

Pro Lys Asp Gln Gln Gln Pro Pro Gln Gln Gln Pro Ser Gln Gln Gln
 85 90 95

Gln Pro Pro Pro Gln Glu Glu Pro Gly Thr Pro Ser Ser Ser Pro Asp
 100 105 110

Asp Lys Leu Leu Thr Ser Pro Arg Ala Ile Asn Asn Leu Val Leu Gln
 115 120 125

Gly Cys Ser Ser Ile Gly Leu Arg Leu Val Leu Glu Tyr Leu Tyr Thr
 130 135 140

Ala Asn Val Thr Leu Ser Leu Asp Thr Val Glu Glu Val Leu Ser Val
 145 150 155 160

Ser Lys Ile Leu His Ile Pro Gln Val Thr Lys Leu Cys Val Gln Phe
 165 170 175

Leu Asn Asp Gln Ile Ser Val Gln Asn Tyr Lys Gln Val Cys Lys Ile
 180 185 190

Ala Ala Leu His Gly Leu Glu Glu Thr Lys Lys Leu Ala Asn Lys Tyr
 195 200 205

Leu Val Glu Asp Val Leu Leu Leu Asn Phe Glu Glu Met Arg Ala Leu
 210 215 220

Leu Asp Ser Leu Pro Pro Pro Val Glu Ser Glu Leu Ala Leu Phe Gln
 225 230 235 240

Met Ser Val Leu Trp Leu Glu His Asp Arg Glu Thr Arg Met Gln Tyr
 245 250 255

Ala Pro Asp Leu Met Lys Arg Leu Arg Phe Ala Leu Ile Pro Ala Pro
 260 265 270

Glu Leu Val Glu Arg Val Gln Ser Val Asp Phe Met Arg Thr Asp Pro
 275 280 285

Val Cys Gln Lys Leu Leu Leu Asp Ala Met Asn Tyr His Leu Met Pro
 290 295 300

Phe Arg Gln His Cys Arg Gln Ser Leu Ala Ser Arg Ile Arg Ser Asn
 305 310 315 320

Lys Lys Met Leu Leu Leu Val Gly Gly Leu Pro Pro Gly Pro Asp Arg
 325 330 335

Leu Pro Ser Asn Leu Val Gln Tyr Tyr Asp Asp Glu Lys Lys Thr Trp
 340 345 350

Lys Ile Leu Thr Ile Met Pro Tyr Asn Ser Ala His His Cys Val Val
 355 360 365

Glu Val Glu Asn Phe Leu Phe Val Leu Gly Gly Glu Asp Gln Trp Asn
 370 375 380

Pro Asn Gly Lys His Ser Thr Asn Phe Val Ser Arg Tyr Asp Pro Arg
 385 390 395 400

Phe Asn Ser Trp Ile Gln Leu Pro Pro Met Gln Glu Arg Arg Ala Ser
 405 410 415

Phe Tyr Ala Cys Arg Leu Asp Lys His Leu Tyr Val Ile Gly Gly Arg
 420 425 430

Asn Glu Thr Gly Tyr Leu Ser Ser Val Glu Cys Tyr Asn Leu Glu Thr
 435 440 445

Asn Glu Trp Arg Tyr Val Ser Ser Leu Pro Gln Pro Leu Ala Ala His

450	455	460	
Ala Gly Ala Val His Asn Gly Lys Ile Tyr Ile Ser Gly Gly Val His			
465	470	475	480
Asn Gly Glu Tyr Val Pro Trp Leu Tyr Cys Tyr Asp Pro Val Met Asp			
	485	490	495
Val Trp Ala Arg Lys Gln Asp Met Asn Thr Lys Arg Ala Ile His Thr			
	500	505	510
Leu Ala Val Met Asn Asp Arg Leu Tyr Ala Ile Gly Gly Asn His Leu			
	515	520	525
Lys Gly Phe Ser His Leu Asp Val Met Leu Val Glu Cys Tyr Asp Pro			
	530	535	540
Lys Gly Asp Gln Trp Asn Ile Leu Gln Thr Pro Ile Leu Glu Gly Arg			
545	550	555	560
Ser Gly Pro Gly Cys Ala Val Leu Asp Asp Ser Ile Tyr Leu Val Gly			
	565	570	575
Gly Tyr Ser Trp Ser Met Gly Ala Tyr Lys Ser Ser Thr Ile Cys Tyr			
	580	585	590
Cys Pro Glu Lys Gly Thr Trp Thr Glu Leu Glu Gly Asp Val Ala Glu			
	595	600	605
Pro Leu Ala Gly Pro Ala Cys Val Thr Val Ile Leu Pro Ser Cys Val			
610	615	620	
Pro Tyr Asn Lys			
625			
<210>	23		
<211>	4261		
<212>	DNA		
<213>	Homo sapiens		
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<211> 477
<212> DNA
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<213> Homo sapiens

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<220>
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<223> N is a, c, g, or t.

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<210> 26
<211> 385
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

<400> 31

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Ile Tyr Ala Met Ser Met Val Leu Lys Met Leu Pro Ala Leu Gly Met
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Ala Cys Pro Pro Lys Cys Arg Cys Glu Lys Leu Leu Phe Tyr Cys Asp
35 40 45

Ser Gln Gly Phe His Ser Val Pro Asn Ala Thr Asp Lys Gly Ser Leu
 50 55 60

Gly Leu Ser Leu Arg His Asn His Ile Thr Glu Leu Glu Arg Asp Gln
 65 70 75 80

Phe Ala Ser Phe Ser Gln Leu Thr Trp Leu His Leu Asp His Asn Gln
 85 90 95

Ile Ser Thr Val Lys Glu Asp Ala Phe Gln Gly Leu Tyr Lys Leu Lys
 100 105 110

Glu Leu Ile Leu Ser Ser Asn Lys Ile Phe Tyr Leu Pro Asn Thr Thr
 115 120 125

Phe Thr Gln Leu Ile Asn Leu Gln Asn Leu Asp Leu Ser Phe Asn Gln
 130 135 140

Leu Ser Ser Leu His Pro Glu Leu Phe Tyr Gly Leu Arg Lys Leu Gln
 145 150 155 160

Thr Leu His Leu Arg Ser Asn Ser Leu Arg Thr Ile Pro Val Arg Leu
 165 170 175

Phe Trp Asp Cys Arg Ser Leu Glu Phe Leu Asp Leu Ser Thr Asn Arg
 180 185 190

Leu Arg Ser Leu Ala Arg Asn Gly Phe Ala Gly Leu Ile Lys Leu Arg
 195 200 205

Glu Leu His Leu Glu His Asn Gln Leu Thr Lys Ile Asn Phe Ala His
 210 215 220

Phe Leu Arg Leu Ser Ser Leu His Thr Leu Phe Leu Gln Trp Asn Lys
 225 230 235 240

Ile Ser Asn Leu Thr Cys Gly Met Glu Trp Thr Trp Gly Thr Leu Glu
 245 250 255

Lys Leu Asp Leu Thr Gly Asn Glu Ile Lys Ala Ile Asp Leu Thr Val
 260 265 270

Phe Glu Thr Met Pro Asn Leu Lys Ile Leu Leu Met Asp Asn Asn Lys
 275 280 285

Leu Asn Ser Leu Asp Ser Lys Ile Leu Asn Ser Leu Arg Ser Leu Thr
 290 295 300

Thr Val Gly Leu Ser Gly Asn Leu Trp Glu Cys Ser Ala Arg Ile Cys
 305 310 315 320

Ala Leu Ala Ser Trp Leu Gly Ser Phe Gln Gly Arg Trp Glu His Ser
 325 330 335

Ile Leu Cys His Ser Pro Asp His Thr Gln Gly Glu Asp Ile Leu Asp
 340 345 350

Ala Val His Gly Phe Gln Leu Cys Trp Asn Leu Ser Thr Thr Val Thr
 355 360 365

Val Met Ala Thr Thr Tyr Arg Asp Pro Thr Thr Glu Tyr Thr Lys Arg
 370 375 380

Ile Ser Ser Ser Ser Tyr His Val Gly Asp Lys Glu Ile Pro Thr Thr
 385 390 395 400

Ala Gly Ile Ala Val Thr Thr Glu Glu His Phe Pro Glu Pro Asp Asn
 405 410 415

Ala Ile Phe Thr Gln Arg Val Ile Thr Gly Thr Met Ala Leu Leu Phe
 420 425 430

Ser Phe Phe Phe Ile Ile Phe Ile Val Phe Ile Ser Arg Lys Cys Cys
 435 440 445

Pro Pro Thr Leu Arg Arg Ile Arg Gln Cys Ser Met Val Gln Asn His
 450 455 460

Arg Gln Leu Arg Ser Gln Thr Arg Leu His Met Ser Asn Met Ser Asp
 465 470 475 480

Gln Gly Pro Tyr Asn Glu Tyr Glu Pro Thr His Glu Gly Pro Phe Ile
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Ile Ile Asn Gly Tyr Gly Gln Cys Lys Cys Gln Gln Leu Pro Tyr Lys
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Glu Cys Glu Val
 515

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 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 32

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Pro Ala Ala Pro Ser Gly Cys Pro Gln Leu Cys Arg Cys Glu Gly Arg
 35 40 45

Leu Leu Tyr Cys Glu Ala Leu Asn Leu Thr Glu Ala Pro His Asn Leu
 50 55 60

Ser Gly Leu Leu Gly Leu Ser Leu Arg Tyr Asn Ser Leu Ser Glu Leu
 65 70 75 80

Arg Ala Gly Gln Phe Thr Gly Leu Met Gln Leu Thr Trp Leu Tyr Leu
 85 90 95

Asp His Asn His Ile Cys Ser Val Gln Gly Asp Ala Phe Gln Lys Leu
 100 105 110

Arg Arg Val Lys Glu Leu Thr Leu Ser Ser Asn Gln Ile Thr Gln Leu
 115 120 125

Pro Asn Thr Thr Phe Arg Pro Met Pro Asn Leu Arg Ser Val Asp Leu
 130 135 140

Ser Tyr Asn Lys Leu Gln Ala Leu Ala Pro Asp Leu Phe His Gly Leu
 145 150 155 160

Arg Lys Leu Thr Thr Leu His Met Arg Ala Asn Ala Ile Gln Phe Val
 165 170 175

Pro Val Arg Ile Phe Gln Asp Cys Arg Ser Leu Lys Phe Leu Asp Ile
 180 185 190

Gly Tyr Asn Gln Leu Lys Ser Leu Ala Arg Asn Ser Phe Ala Gly Leu
 195 200 205

Phe Lys Leu Thr Glu Leu His Leu Glu His Asn Asp Leu Val Lys Val
 210 215 220

Asn Phe Ala His Phe Pro Arg Leu Ile Ser Leu His Ser Leu Cys Leu
225 230 235 240

Arg Arg Asn Lys Val Ala Ile Val Val Ser Ser Leu Asp Trp Val Trp
245 250 255

Asn Leu Glu Lys Met Asp Leu Ser Gly Asn Glu Ile Glu Tyr Met Glu
260 265 270

Pro His Val Phe Glu Thr Val Pro His Leu Gln Ser Leu Gln Leu Asp
275 280 285

Ser Asn Arg Leu Thr Tyr Ile Glu Pro Arg Ile Leu Asn Ser Trp Lys
290 295 300

Ser Leu Thr Ser Ile Thr Leu Ala Gly Asn Leu Trp Asp Cys Gly Arg
305 310 315 320

Asn Val Cys Ala Leu Ala Ser Trp Leu Asn Asn Phe Gln Gly Arg Tyr
325 330 335

Asp Gly Asn Leu Gln Cys Ala Ser Pro Glu Tyr Ala Gln Gly Glu Asp
340 345 350

Val Leu Asp Ala Val Tyr Ala Phe His Leu Cys Glu Asp Gly Ala Glu
355 360 365

Pro Thr Ser Gly His Leu Leu Ser Ala Val Thr Asn Arg Ser Asp Leu
370 375 380

Gly Pro Pro Ala Ser Ser Ala Thr Thr Leu Ala Asp Gly Gly Glu Gly
385 390 395 400

Gln His Asp Gly Thr Phe Glu Pro Ala Thr Val Ala Leu Pro Gly Gly
405 410 415

Glu His Ala Glu Asn Ala Val Gln Ile His Lys Val Val Thr Gly Thr
420 425 430

Met Ala Leu Ile Phe Ser Phe Leu Ile Val Val Leu Val Leu Tyr Val
435 440 445

Ser Trp Lys Cys Phe Pro Ala Ser Leu Arg Gln Leu Arg Gln Cys Phe
450 455 460

Val Thr Gln Arg Arg Lys Gln Lys Gln Lys Gln Thr Met His Gln Met
465 470 475 480

Ala Ala Met Ser Ala Gln Glu Tyr Tyr Val Asp Tyr Lys Pro Asn His
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His Gln Gln Pro Ala Arg Glu Cys Glu Val
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<213> Homo sapiens

<400> 33

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Ile Val Tyr Cys Glu Ser His Ala Phe Ala Asp Ile Pro Glu Asn Ile
35 40 45

Ser Gly Gly Ser Gln Gly Leu Ser Leu Arg Phe Asn Ser Ile Gln Lys
50 55 60

Leu Lys Ser Asn Gln Phe Ala Gly Leu Asn Gln Leu Ile Trp Leu Tyr
65 70 75 80

Leu Asp His Asn Tyr Ile Ser Ser Val Asp Glu Asp Ala Phe Gln Gly
85 90 95

Ile Arg Arg Leu Lys Glu Leu Ile Leu Ser Ser Asn Lys Ile Thr Tyr
100 105 110

Leu His Asn Lys Thr Phe His Pro Val Pro Asn Leu Arg Asn Leu Asp
115 120 125

Leu Ser Tyr Asn Lys Leu Gln Thr Leu Gln Ser Glu Gln Phe Lys Gly
130 135 140

Leu Arg Lys Leu Ile Ile Leu His Leu Arg Ser Asn Ser Leu Lys Thr

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Leu Gly Tyr Asn Arg Leu Arg Ser Leu Ser Arg Asn Ala Phe Ala Gly			
	180	185	190
Leu Leu Lys Leu Lys Glu Leu His Leu Glu His Asn Gln Phe Ser Lys			
	195	200	205
Ile Asn Phe Ala His Phe Pro Arg Leu Phe Asn Leu Arg Ser Ile Tyr			
	210	215	220
Leu Gln Trp Asn Arg Ile Arg Ser Ile Ser Gln Gly Leu Thr Trp Thr			
	225	230	235
Trp Ser Ser Leu His Asn Leu Asp Leu Ser Gly Asn Asp Ile Gln Gly			
	245	250	255
Ile Glu Pro Gly Thr Phe Lys Cys Leu Pro Asn Leu Gln Lys Leu Asn			
	260	265	270
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	275	280	285
Trp Ile Ser Leu Ile Ser Ile Thr Leu Ser Gly Asn Met Trp Glu Cys			
	290	295	300
Ser Arg Ser Ile Cys Pro Leu Phe Tyr Trp Leu Lys Asn Phe Lys Gly			
	305	310	315
Asn Lys Glu Ser Thr Met Ile Cys Ala Gly Pro Lys His Ile Gln Gly			
	325	330	335
Glu Lys Val Ser Asp Ala Val Glu Thr Tyr Asn Ile Cys Ser Glu Val			
	340	345	350
Gln Val Val Asn Thr Glu Arg Ser His Leu Val Pro Gln Thr Pro Gln			
	355	360	365
Lys Pro Leu Ile Ile Pro Arg Pro Thr Ile Phe Lys Pro Asp Val Thr			
	370	375	380
Gln Ser Thr Phe Glu Thr Pro Ser Pro Ser Pro Gly Phe Gln Ile Pro			
	385	390	395
			400

Gly Ala Glu Gln Glu Tyr Glu His Val Ser Phe His Lys Ile Ile Ala
405 410 415

Gly Ser Val Ala Leu Phe Leu Ser Val Ala Met Ile Leu Leu Val Ile
420 425 430

Tyr Val Ser Trp Lys Arg Tyr Pro Ala Ser Met Lys Gln Leu Gln Gln
435 440 445

His Ser Leu Met Lys Arg Arg Arg Lys Lys Ala Arg Glu Ser Glu Arg
450 455 460

Gln Met Asn Ser Pro Leu Gln Glu Tyr Tyr Val Asp Tyr Lys Pro Thr
465 470 475 480

Asn Ser Glu Thr Met Asp Ile Ser Val Asn Gly Ser Gly Pro Cys Thr
485 490 495

Tyr Thr Ile Ser Gly Ser Arg Glu Cys Glu Val
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<210> 34
<211> 581
<212> PRT
<213> Homo sapiens
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<400> 34

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20 25 30

Gly Cys Pro Lys Gly Cys Arg Cys Glu Gly Lys Met Val Tyr Cys Glu
35 40 45

Ser Gln Lys Leu Gln Glu Ile Pro Ser Ser Ile Ser Ala Gly Cys Leu
50 55 60

Gly Leu Ser Leu Arg Tyr Asn Ser Leu Gln Lys Leu Lys Tyr Asn Gln
65 70 75 80

Phe Lys Gly Leu Asn Gln Leu Thr Trp Leu Tyr Leu Asp His Asn His
85 90 95

Ile Ser Asn Ile Asp Glu Asn Ala Phe Asn Gly Ile Arg Arg Leu Lys
 100 105 110

Glu Leu Ile Leu Ser Ser Asn Arg Ile Ser Tyr Phe Leu Asn Asn Thr
 115 120 125

Phe Arg Pro Val Thr Asn Leu Arg Asn Leu Asp Leu Ser Tyr Asn Gln
 130 135 140

Leu His Ser Leu Gly Ser Glu Gln Phe Arg Gly Leu Arg Lys Leu Leu
 145 150 155 160

Ser Leu His Leu Arg Ser Asn Ser Leu Arg Thr Ile Pro Val Arg Ile
 165 170 175

Phe Gln Asp Cys Arg Asn Leu Glu Leu Leu Asp Leu Gly Tyr Asn Arg
 180 185 190

Ile Arg Ser Leu Ala Arg Asn Val Phe Ala Gly Met Ile Arg Leu Lys
 195 200 205

Glu Leu His Leu Glu His Asn Gln Phe Ser Lys Leu Asn Leu Ala Leu
 210 215 220

Phe Pro Arg Leu Val Ser Leu Gln Asn Leu Tyr Leu Gln Trp Asn Lys
 225 230 235 240

Ile Ser Val Ile Gly Gln Thr Met Ser Trp Thr Trp Ser Ser Leu Gln
 245 250 255

Arg Leu Asp Leu Ser Gly Asn Glu Ile Glu Ala Phe Ser Gly Pro Ser
 260 265 270

Val Phe Gln Cys Val Pro Asn Leu Gln Arg Leu Asn Leu Asp Ser Asn
 275 280 285

Lys Leu Thr Phe Ile Gly Gln Glu Ile Leu Asp Ser Trp Ile Ser Leu
 290 295 300

Asn Asp Ile Ser Leu Ala Gly Asn Ile Trp Glu Cys Ser Arg Asn Ile
 305 310 315 320

Cys Ser Leu Val Asn Trp Leu Lys Ser Phe Lys Gly Leu Arg Glu Asn
 325 330 335

Thr Ile Ile Cys Ala Ser Pro Lys Glu Leu Gln Gly Val Asn Val Ile

340	345	350
Asp Ala Val Lys Asn Tyr Ser Ile Cys Gly Lys Ser Thr Thr Glu Arg		
355	360	365
Phe Asp Leu Ala Arg Ala Leu Pro Lys Pro Thr Phe Lys Pro Lys Leu		
370	375	380
Pro Arg Pro Lys His Glu Ser Lys Pro Pro Leu Pro Pro Thr Val Gly		
385	390	395
Ala Thr Glu Pro Gly Pro Glu Thr Asp Ala Asp Ala Glu His Ile Ser		
405	410	415
Phe His Lys Ile Ile Ala Gly Ser Val Ala Leu Phe Leu Ser Val Leu		
420	425	430
Val Ile Leu Leu Val Ile Tyr Val Ser Trp Lys Arg Tyr Pro Ala Ser		
435	440	445
Met Lys Gln Leu Gln Gln Arg Ser Leu Met Arg Arg His Arg Lys Lys		
450	455	460
Lys Arg Gln Ser Leu Lys Gln Met Thr Pro Ser Thr Gln Glu Phe Tyr		
465	470	475
Val Asp Tyr Lys Pro Thr Asn Thr Glu Thr Ser Glu Met Leu Leu Asn		
485	490	495
Gly Thr Gly Pro Cys Thr Tyr Asn Lys Ser Gly Ser Arg Glu Cys Glu		
500	505	510
Ile Pro Leu Ser Met Asn Val Ser Thr Phe Leu Ala Tyr Asp Gln Pro		
515	520	525
Thr Ile Ser Tyr Cys Gly Val His His Glu Leu Leu Ser His Lys Ser		
530	535	540
Phe Glu Thr Asn Ala Gln Glu Asp Thr Met Glu Thr His Leu Glu Thr		
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Glu Leu Asp Leu Ser Thr Ile Thr Thr Ala Gly Arg Ile Ser Asp His		
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Lys Gln Gln Leu Ala		
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<220>
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<210> 36
 <211> 23
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<220>
 <223> PCR primer for amplifying Anat-2.

<400> 36
 gcgagctgac cacaatggcc acc 23

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<210> 38
 <211> 468
 <212> DNA
 <213> Homo sapiens

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 acttttagtaa atatctcgct aagatactga acatcaaaat taaaaatcaa acaacttcta 180

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tgccatctgt gaaccagcaa ggcatagaca gaattgtttg gaaaaaagcc tgattagtag 420
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<210> 39
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<212> DNA
<213> Homo sapiens

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<210> 40
<211> 999
<212> PRT
<213> Homo sapiens

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<400> 40

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          20           25           30

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Val Gly Lys Phe Asp Trp Arg Gln Gln Tyr Val Gly Lys Val Lys Phe
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Ala Ser Leu Glu Phe Ser Pro Gly Ser Lys Lys Leu Val Val Ala Thr
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Glu Lys Asn Val Ile Ala Ala Leu Asn Ser Arg Thr Gly Glu Ile Leu

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Met	Arg	Ser	Trp	Glu	Thr	Asn	Ile	Gly	Gly	Leu	Asn	Trp	Glu	Ile	Thr
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His	Leu	Ser	Ser	Gly	His	Leu	Lys	Trp	Val	Glu	His	Leu	Pro	Glu	Ser
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Trp	Ala	Leu	Gly	Val	Val	Pro	Phe	Ser	His	Val	Asn	Ile	Val	Lys	Phe
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Lys Asp Ser Leu Ala Cys Phe Asn Gln Thr Tyr Thr Ile Asn Leu Tyr
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Leu Val Glu Thr Gly Arg Arg Leu Leu Asp Thr Thr Ile Thr Phe Ser
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 485 490 495

Gln Leu Ile Leu Leu Gln Ala Trp Thr Ser His Leu Trp Lys Met Phe
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Val Thr Ala Ser Gly Lys Leu Phe Gly Ile Glu Ser Ser Ser Gly Thr
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Cys Thr Leu Leu Val Lys Asp Lys Glu Ser Gly Met Ser Ser Leu Tyr
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 645 650 655

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 660 665 670

Pro Ser Ile Phe Phe Tyr Leu Val Asp Ala Glu Gln Gly Arg Leu Cys
 675 680 685

Gly Tyr Arg Leu Arg Lys Asp Leu Thr Thr Glu Leu Ser Trp Glu Leu
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Thr Ile Pro Pro Glu Val Gln Arg Ile Val Lys Val Lys Gly Lys Arg
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Asp Gly Val Thr Gly Arg Ile Ile His Ser Ser Val Gln Lys Lys Ala
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Lys Gly Pro Val His Ile Val His Ser Glu Asn Trp Val Val Tyr Gln
 785 790 795 800

Tyr Trp Asn Thr Lys Ala Arg Arg Asn Glu Phe Thr Val Leu Glu Leu
805 810 815

Tyr Glu Gly Thr Glu Gln Tyr Asn Ala Thr Ala Phe Ser Ser Leu Asp
820 825 830

Arg Pro Gln Leu Pro Gln Val Leu Gln Gln Ser Tyr Ile Phe Pro Ser
835 840 845

Ser Ile Ser Ala Met Glu Ala Thr Ile Thr Glu Arg Gly Ile Thr Ser
850 855 860

Arg His Leu Leu Ile Gly Leu Pro Ser Gly Ala Ile Leu Ser Leu Pro
865 870 875 880

Lys Ala Leu Leu Asp Pro Arg Arg Pro Glu Ile Pro Thr Glu Gln Ser
885 890 895

Arg Glu Glu Asn Leu Ile Pro Tyr Ser Pro Asp Val Gln Ile His Ala
900 905 910

Glu Arg Phe Ile Asn Tyr Asn Gln Thr Val Ser Arg Met Arg Gly Ile
915 920 925

Tyr Thr Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu Val Val Ala Tyr
930 935 940

Gly Leu Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser Lys Gln Phe Asp
945 950 955 960

Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser Ser Val Leu Phe
965 970 975

Gly Leu Val Phe Ala Thr Met Ile Thr Lys Arg Leu Ala Gln Val Lys
980 985 990

Leu Leu Asn Arg Ala Trp Arg
995

<210> 41

<211> 2079

<212> DNA

<213> Homo sapiens

<400> 41
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ctaagccaag	aaggaacttt	cccacactac	tgaatggaag	caggctgtct	tgtaaaagcc	1860
cagatcactg	tgggctggag	aggagaagga	aagggtctgc	gccagccctg	tccgtcttca	1920

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cccatcccca agcctactag agcaagaaac cagttgtaat ataaaatgca ctgccctact 1980
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taaagagctg tgtaacatca aaaaaaaaaa aaaaaaaaaa 2079

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<210> 42
<211> 423
<212> PRT
<213> Homo sapiens

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<400> 42

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Met Ser Asn Pro Cys Ala Asn Pro Val Ser Pro Trp Arg Pro Ser Glu
1          5          10          15

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Ser Val Gly Ile Pro Ile Ile Ile Ala Leu Leu Ser Leu Ala Ser Ile
          20          25          30

```

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Ile Ile Val Val Val Leu Ile Lys Val Ile Leu Asp Lys Tyr Tyr Phe
          35          40          45

```

```

Leu Cys Gly Gln Pro Leu His Phe Ile Pro Arg Lys Gln Leu Cys Asp
          50          55          60

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Gly Glu Leu Asp Cys Pro Leu Gly Glu Asp Glu Glu His Cys Val Lys
65          70          75          80

```

```

Ser Phe Pro Glu Gly Pro Ala Val Ala Val Arg Leu Ser Lys Asp Arg
          85          90          95

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```

Ser Thr Leu Gln Val Leu Asp Ser Ala Thr Gly Asn Trp Phe Ser Ala
          100          105          110

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Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala Glu Thr Ala Cys Arg Gln
          115          120          125

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Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg Ala Val Glu Ile Gly Pro
          130          135          140

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Asp Gln Asp Leu Asp Val Val Glu Ile Thr Glu Asn Ser Gln Glu Leu
145          150          155          160

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Arg Met Arg Asn Ser Ser Gly Pro Cys Leu Ser Gly Ser Leu Val Ser
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Leu His Cys Leu Ala Cys Gly Lys Ser Leu Lys Thr Pro Arg Val Val
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Gly Gly Glu Glu Ala Ser Val Asp Ser Trp Pro Trp Gln Val Ser Ile
 195 200 205

Gln Tyr Asp Lys Gln His Val Cys Gly Gly Ser Ile Leu Asp Pro His
 210 215 220

Trp Val Leu Thr Ala Ala His Cys Phe Arg Lys His Thr Asp Val Phe
 225 230 235 240

Asn Trp Lys Val Arg Ala Gly Ser Asp Lys Leu Gly Ser Phe Pro Ser
 245 250 255

Leu Ala Val Ala Lys Ile Ile Ile Ile Glu Phe Asn Pro Met Tyr Pro
 260 265 270

Lys Asp Asn Asp Ile Ala Leu Met Lys Leu Gln Phe Pro Leu Thr Phe
 275 280 285

Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu Glu Leu
 290 295 300

Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr Lys Gln
 305 310 315 320

Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln Ala Ser Val Gln Val
 325 330 335

Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly Glu Val
 340 345 350

Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu Gly Gly Val Asp Thr
 355 360 365

Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp Gln Trp
 370 375 380

His Val Val Gly Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly Pro Ser
 385 390 395 400

Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp Ile Tyr
 405 410 415

Asn Val Trp Lys Ala Glu Leu
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<210> 43
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 43
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 atgtataaaa agtaaggaat acgaaaaagg tacactttgt gggtagtggg aatagctgag 180
 caggatttga cgaataagtg tgagtgaatt caagatgggt gaaagagtag taccattaca 240
 ctgggtagat aaggaaagaa aagcacattt taggtcaaag gaacaagtca tgtcctatga 300
 ctgttcagcc cagttttcat ccataatcaa ctttattgct tcacaattct gttgggttatg 360
 cttattttgt cttttgagga tataactgca agaattccca gcagttccta tcaaatatga 420
 atcttaaccc acatacacia atttgtgtta taatatgaaa atgagacca aaccaaagtg 480
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 ttggttttct gt 552

<210> 44
 <211> 2707
 <212> DNA
 <213> Homo sapiens

<400> 44
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 cagggggggcc cgccggccgc ggacgccgtt gggcccgcag acatggagcc gaagaagggc 180
 acggggggccc ccaaggagtg cggggaggag gagccccgga cctgctgcgg ctgccggttc 240
 ccgctgctgc tcgccctgct gcagctggcc ctgggcatcg ccgtgaccgt ggtgggcttc 300
 ctcatggcga gcatcagctc ctccctgcta gtcagggaca ctccattttg ggctgggac 360
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agtctctgga	gcagaattta	tcacacacaa	aagttacacc	aacagaatac	caagcagaat	2640
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2707

<210> 45
 <211> 1062
 <212> DNA
 <213> Homo sapiens

<400> 45
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 agtattagcc aaggtgcagt ctgcaataaa agcacttcct aa 1062

<210> 46
 <211> 353
 <212> PRT
 <213> Homo sapiens

<400> 46

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 20 25 30

Val	Leu	Cys	Val	Gly	Thr	Phe	Phe	Cys	Leu	Phe	Ile	Phe	Phe	Ser	Asn	35	40	45	
Ser	Leu	Val	Ile	Ala	Ala	Val	Ile	Lys	Asn	Arg	Lys	Phe	His	Phe	Pro	50	55	60	
Phe	Tyr	Tyr	Leu	Leu	Ala	Asn	Leu	Ala	Ala	Ala	Asp	Phe	Phe	Ala	Gly	65	70	75	80
Ile	Ala	Tyr	Val	Phe	Leu	Met	Phe	Asn	Thr	Gly	Pro	Val	Ser	Lys	Thr	85	90	95	
Leu	Thr	Val	Asn	Arg	Trp	Phe	Leu	Arg	Gln	Gly	Leu	Leu	Asp	Ser	Ser	100	105	110	
Leu	Thr	Ala	Ser	Leu	Thr	Asn	Leu	Leu	Val	Ile	Ala	Val	Glu	Arg	His	115	120	125	
Met	Ser	Ile	Met	Arg	Met	Arg	Val	His	Ser	Asn	Leu	Thr	Lys	Lys	Arg	130	135	140	
Val	Thr	Leu	Leu	Ile	Leu	Leu	Val	Trp	Ala	Ile	Ala	Ile	Phe	Met	Gly	145	150	155	160
Ala	Val	Pro	Thr	Leu	Gly	Trp	Asn	Cys	Leu	Cys	Asn	Ile	Ser	Ala	Cys	165	170	175	
Ser	Ser	Leu	Ala	Pro	Ile	Tyr	Ser	Arg	Ser	Tyr	Leu	Val	Phe	Trp	Thr	180	185	190	
Val	Ser	Asn	Leu	Met	Ala	Phe	Leu	Ile	Met	Val	Val	Val	Tyr	Leu	Arg	195	200	205	
Ile	Tyr	Val	Tyr	Val	Lys	Arg	Lys	Thr	Asn	Val	Leu	Ser	Pro	His	Thr	210	215	220	
Ser	Gly	Ser	Ile	Ser	Arg	Arg	Arg	Thr	Pro	Met	Lys	Leu	Met	Lys	Thr	225	230	235	240
Val	Met	Thr	Val	Leu	Gly	Ala	Phe	Val	Val	Cys	Trp	Thr	Pro	Gly	Leu	245	250	255	
Val	Val	Leu	Leu	Leu	Asp	Gly	Leu	Asn	Cys	Arg	Gln	Cys	Gly	Val	Gln	260	265	270	

His Val Lys Arg Trp Phe Leu Leu Leu Ala Leu Leu Asn Ser Val Val
 275 280 285

Asn Pro Ile Ile Tyr Ser Tyr Lys Asp Glu Asp Met Tyr Gly Thr Met
 290 295 300

Lys Lys Met Ile Cys Cys Phe Ser Gln Glu Asn Pro Glu Arg Arg Pro
 305 310 315 320

Ser Arg Ile Pro Ser Thr Val Leu Ser Arg Ser Asp Thr Gly Ser Gln
 325 330 335

Tyr Ile Glu Asp Ser Ile Ser Gln Gly Ala Val Cys Asn Lys Ser Thr
 340 345 350

Ser

<210> 47
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> PCR primer for amplifying EDG7.

<400> 47
 gctggaattg cctatgtatt cctgatg

27

<210> 48
 <211> 24
 <212> DNA
 <213> Artificial

<220>
 <223> PCR primer for amplifying EDG7.

<400> 48
 gcagcaggaa ccaccttttc acat

24

<210> 49
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> PCR primer for amplifying GAPDH.

<400> 49
 accacagtcc atgccatcac

20

<210> 50

<211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> PCR primer for amplifying GAPDH.

<400> 50
 tccaccaccc tggtgctgta

20

<210> 51
 <211> 47
 <212> DNA
 <213> Artificial

<220>
 <223> PCR primer comprising GAPDH sequence for amplifying EDG7.

<400> 51
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47

<210> 52
 <211> 43
 <212> DNA
 <213> Artificial

<220>
 <223> PCR primer comprising GAPDH sequence for amplifying EDG7.

<400> 52
 gcagcaggaa ccaccttttc acattccacc accctgttgc tta

43

<210> 53
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A0201 Binding MERET Peptides

<400> 53

Tyr Leu Val Glu Asp Val Leu Leu Leu
 1 5

<210> 54
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A0201 Binding MERET Peptides

<400> 54

Val Leu Asp Asp Ser Ile Tyr Leu Val
 1 5

<210> 55
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A0201 Binding MERET Peptides

<400> 55

Leu Leu Trp Arg Lys Gln Leu Phe Cys
 1 5

<210> 56
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A0201 Binding MERET Peptides

<400> 56

Tyr Leu Tyr Thr Ala Asn Val Thr Leu
 1 5

<210> 57
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-A0201 Binding MERET Peptides

<400> 57

Asn Leu Leu His Gly Leu Asn Leu Leu
 1 5

<210> 58
 <211> 9
 <212> PRT
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<220>
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<400> 58

Ala Val Leu Asp Asp Ser Ile Tyr Leu
 1 5

<210> 59
 <211> 9
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<213> Artificial Sequence

<220>

<223> HLA-A0201 Binding MERET Peptides

<400> 59

Val Met Asn Asp Arg Leu Tyr Ala Ile
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<210> 60

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-A0201 Binding MERET Peptides

<400> 60

Val Glu Val Glu Asn Phe Leu Phe Val
1 5

<210> 61

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-A0201 Binding MERET Peptides

<400> 61

Ser Leu Phe Ser Ser His Pro Pro Leu
1 5

<210> 62

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-A0201 Binding MERET Peptides

<400> 62

Gln Leu Phe Cys Asp Val Thr Leu Thr
1 5

<210> 63

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-24 Binding MERET Peptides

<400> 63

Lys Tyr Leu Val Glu Asp Val Leu Leu
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<210> 64

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-24 Binding MERET Peptides

<400> 64

Leu Tyr Ala Ile Gly Gly Asn His Leu
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<210> 65

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-24 Binding MERET Peptides

<400> 65

Asn Phe Glu Glu Met Arg Ala Leu Leu
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<210> 66

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-24 Binding MERET Peptides

<400> 66

Leu Phe Gln Met Ser Val Leu Trp Leu
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<210> 67

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> HLA-24 Binding MERET Peptides

<400> 67

Gly Phe Ser His Leu Asp Val Met Leu
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<210> 68
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-24 Binding MERET Peptides

<400> 68

Gln Phe His Cys His Lys Ala Val Leu
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<210> 69
 <211> 9
 <212> PRT
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<220>
 <223> HLA-24 Binding MERET Peptides

<400> 69

Arg Thr Asp Pro Val Cys Gln Lys Leu
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<210> 70
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HLA-24 Binding MERET Peptides

<400> 70

Arg Tyr Asp Pro Arg Phe Asn Ser Trp
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Lys Met Leu Leu Leu Val Gly Gly Leu
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Cys Val Val Glu Val Glu Asn Phe Leu
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<210> 73

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<223> HLA-A3 Binding MERET Peptides

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Met Leu Val Glu Cys Tyr Asp Pro Lys
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<210> 74

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Lys Leu Leu Leu Asp Ala Met Asn Tyr
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Ala Leu His Gly Leu Glu Glu Thr Lys
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His Leu Ala Ala Asx Ile Asn Asp Ile Asn Gly Met Glu Arg Glu Thr
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Pro Glu Pro Thr Ile Asp Glu Ser Ile Leu His Ile Pro Gln Val Thr
 20 25 30

Lys

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Leu Leu Leu Asn Phe Glu Glu Met Arg
 1 5

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Asn Leu Glu Thr Asn Glu Trp Arg Tyr
 1 5

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Met Gln Tyr Ala Pro Asp Leu Met Lys
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Tyr Leu Val Glu Asp Val Leu Leu Leu
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<210> 81

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Leu Val Gln Tyr Tyr Asp Asp Glu Lys
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<210> 82

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<223> HLA-A3 Binding MERET Peptides

<400> 82

Ala Met Asn Tyr His Leu Met Pro Phe
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<210> 83

<211> 9

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<223> HLA-A1 Binding MERET Peptides

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Val Val Glu Val Glu Asn Phe Leu Phe
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<210> 84

<211> 9

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<223> HLA-A1 Binding MERET Peptides

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Asn Leu Glu Thr Asn Glu Trp Arg Tyr

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<210> 85

<211> 9

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<223> HLA-A1 Binding MERET Peptides

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Arg Thr Asp Pro Val Cys Gln Lys Leu

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<210> 86

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Asn Gly Glu Tyr Val Pro Trp Leu Tyr

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<210> 87

<211> 9

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Val Ile Leu Pro Ser Cys Val Pro Tyr

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Trp Leu Glu His Asp Arg Glu Thr Arg

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<210> 89

<211> 9

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Val Ala Glu Pro Leu Ala Gly Pro Ala
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<210> 90
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Glu Ser Glu Leu Ala Leu Phe Gln Met
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Glu Val Glu Asn Phe Leu Phe Val Leu
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Ser Val Glu Cys Tyr Asn Leu Glu Thr
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<210> 93
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Leu Pro Pro Pro Val Glu Ser Glu Leu
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<400> 94

Gly Pro Ala Cys Val Thr Val Ile Leu
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<210> 95

<211> 9

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Asp Pro Ser His Ser Asp Asn Leu Leu
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<210> 96

<211> 9

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<223> HLA-B7 Binding MERET Peptides

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Asp Pro Val Cys Gln Lys Leu Leu Leu
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<210> 97

<211> 9

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Ala Val Leu Asp Asp Ser Ile Tyr Leu
1 5

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Ser Pro Arg Ala Ile Asn Asn Leu Val
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<210> 99
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Glu Met Arg Ala Leu Leu Asp Ser Leu
 1 5

<210> 100
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Gly Gly Arg Asn Glu Thr Gly Tyr Leu
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Gly Leu Arg Leu Val Leu Glu Tyr Leu
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<223> HLA-B7 Binding MERET Peptides

<400> 102

Arg Ile Arg Ser Asn Lys Lys Met Leu

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5